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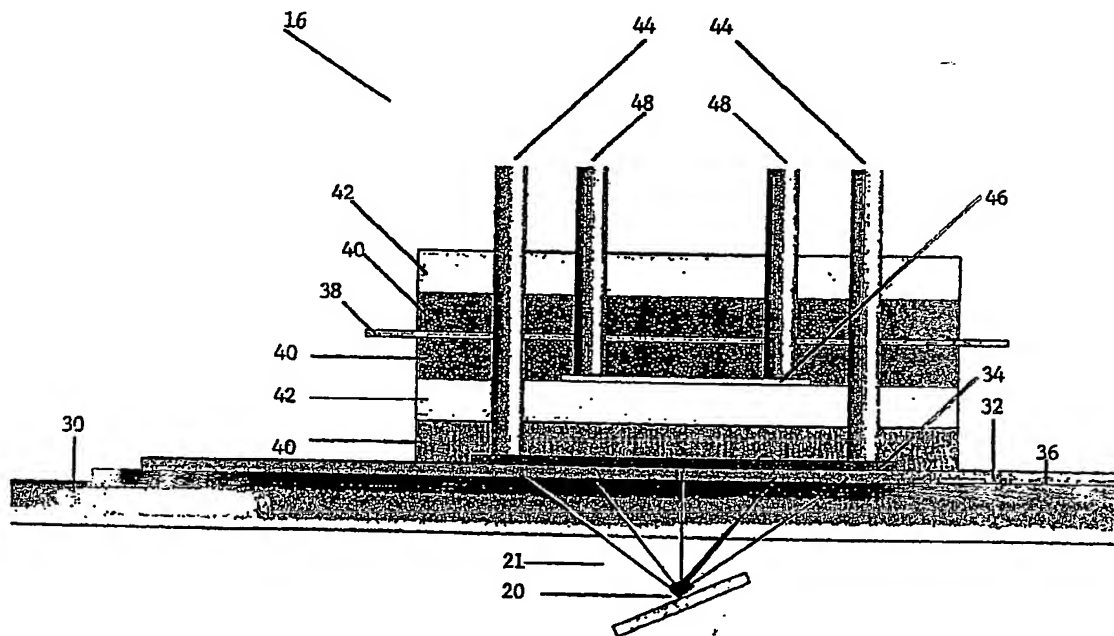
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(54) Title: PHOTOLYTIC OXYGENATOR WITH CARBON DIOXIDE AND/OR HYDROGEN SEPARATION AND FIXATION



(57) Abstract: Apparatus for oxygenating an enclosed space as well as removing carbon dioxide from the enclosed space. The apparatus comprises a photolytic cell (16) having an anode compartment with a photo-active surface having the ability to convert water to oxygen; a cathode compartment having the ability to convert carbon dioxide and hydrogen to a solid or liquid medium; and a light source (20) for providing light photons (21) to said photolytic cell and activating the photo-reactive surface.

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